

=> fil reg; d stat que 112

FILE 'REGISTRY' ENTERED AT 10:27:38 ON 16 FEB 2005

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5

DICTIONARY FILE UPDATES: 15 FEB 2005 HIGHEST RN 831913-30-5

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

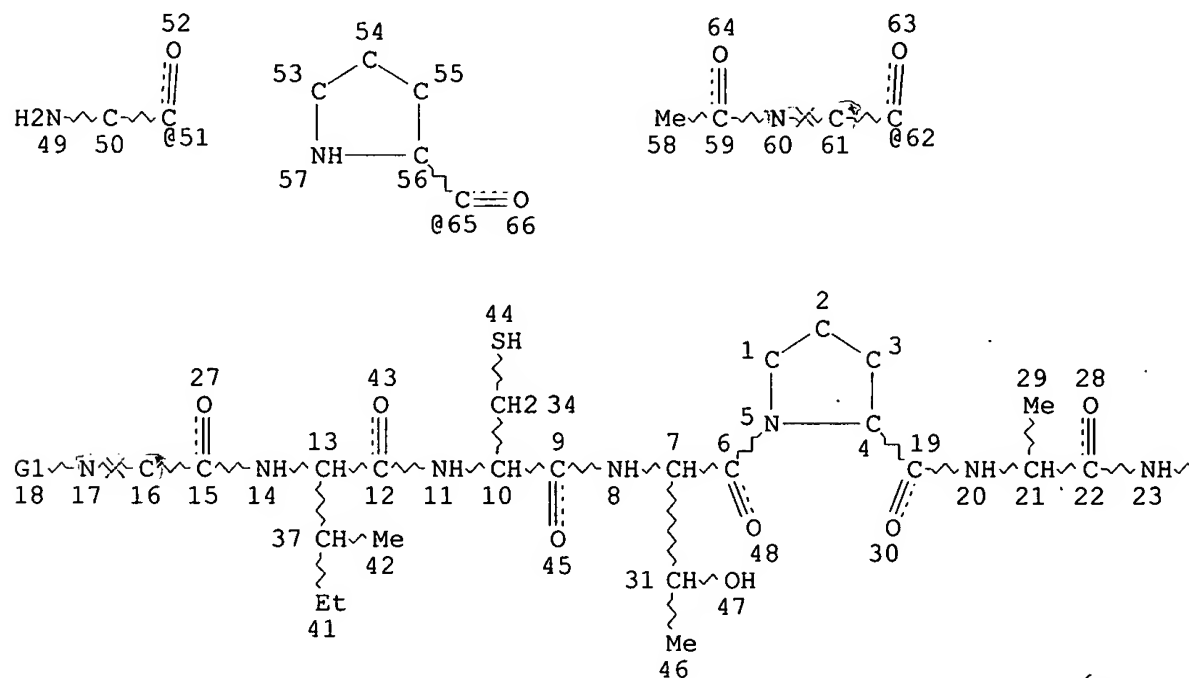
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

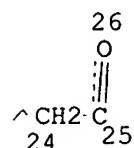
<http://www.cas.org/ONLINE/DBSS/registryss.html>

L10

STR



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Page 1-B

VAR G1=51/65/62

NODE ATTRIBUTES:

NSPEC	IS	RC	AT	16
NSPEC	IS	RC	AT	17
NSPEC	IS	RC	AT	60
NSPEC	IS	RC	AT	61

this structure covers  
claims 788

DEFAULT MLEVEL IS ATOM  
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:  
RING(S) ARE ISOLATED OR EMBEDDED  
NUMBER OF NODES IS 59

STEREO ATTRIBUTES: NONE  
L12 1 SEA FILE=REGISTRY SSS FUL L10 }

100.0% PROCESSED 202773 ITERATIONS  
SEARCH TIME: 00.00.03

1 ANSWERS }

=> d sqide l12

L12 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2005 ACS on STN

RN 318238-72-1 REGISTRY

CN L-Arginine, glycyl-L-lysyl-L-isoleucyl-L-cysteiny-L-threonyl-L-prolyl-L-alanyl-glycyl-L-valyl-L-lysyl-L-cysteiny-L-prolyl-L-alanyl-L-leucyl-L-prolyl-L-cysteiny-L-cysteiny-L-prolyl-glycyl-L-leucyl-L-arginyl-L-cysteiny-L-isoleucyl-glycyl-glycyl-L-valyl-L-asparaginy-L-asparaginy-L-lysyl-L-valyl-L-cysteiny- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 2: PN: WO0100841 SEQID: 2 claimed sequence

CN 41: PN: WO02098911 SEQID: 41 unclaimed sequence

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 33

PATENT ANNOTATIONS (PNTE):

Sequence |Patent

Source |Reference

=====+=====

Not Given|WO2001000841

|claimed

|SEQID 2

SEQ --1 GKICTPAGVK CPAALPCCPG LRCIGGVNKK VCR

MF --C138 H240 N44 O37 S6

SR CA

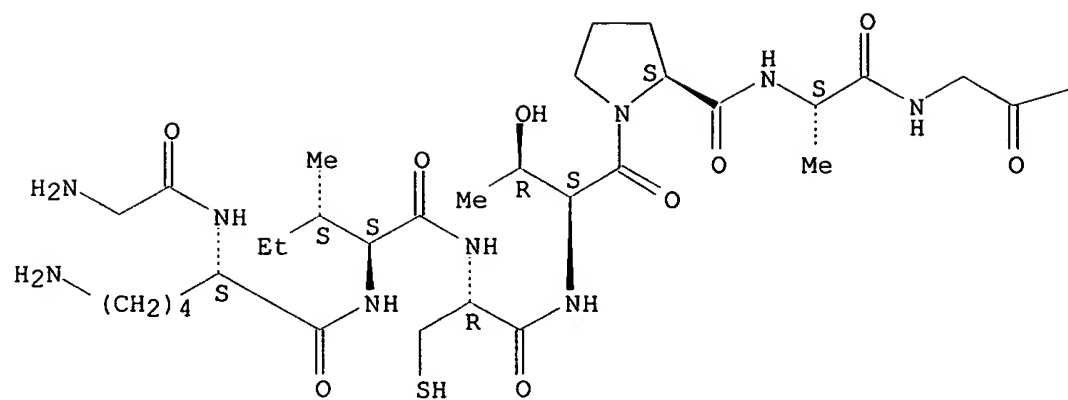
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

DT.CA Caplus document type: Patent

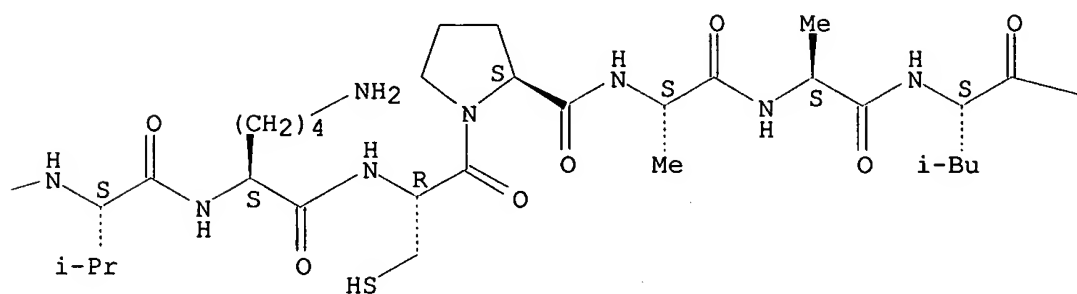
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)

Absolute stereochemistry.

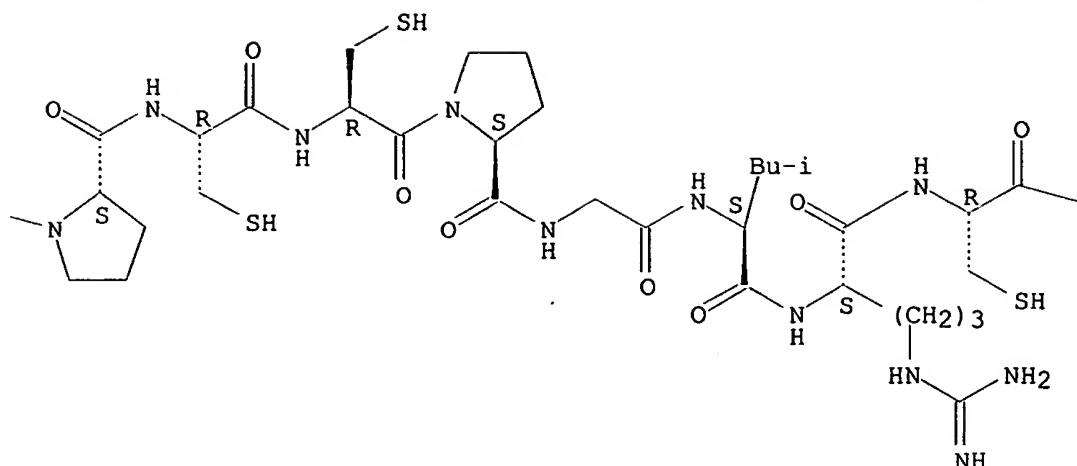
PAGE 1-A



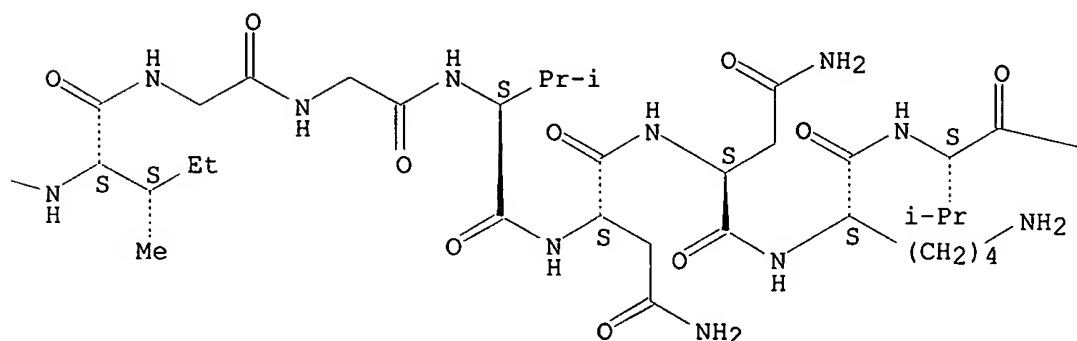
PAGE 1-B



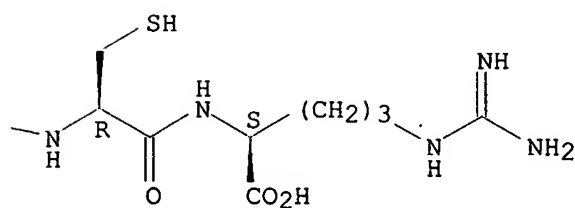
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PAGE 1-E



2 REFERENCES IN FILE CA (1907 TO DATE)  
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> fil capl uspatf toxcenter; s 112  
 FILE 'CAPLUS' ENTERED AT 10:28:09 ON 16 FEB 2005  
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 CA INDEXING COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'TOXCENTER' ENTERED AT 10:28:09 ON 16 FEB 2005  
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L13 5 L12

=> dup rem l13

PROCESSING COMPLETED FOR L13

L14 3 DUP REM L13 (2 DUPLICATES REMOVED)  
ANSWERS '1-2' FROM FILE CAPLUS  
ANSWER '3' FROM FILE USPATFULL

=> d-ibib ed abs hitrn 1-3; fil hom

L14 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1  
ACCESSION NUMBER: 2002:946316 CAPLUS  
DOCUMENT NUMBER: 138:20492  
TITLE: Synthetic insecticidal proteins and synergistic combinations thereof for production of transgenic plants which are resistant to insect  
INVENTOR(S): Vincent, Jason Leigh; Viner, Russell  
PATENT ASSIGNEE(S): Syngenta Limited, UK  
SOURCE: PCT Int. Appl., 67 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002098911	A2	20021212	WO 2002-GB2666	20020530
WO 2002098911	A3	20030410		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2445748	AA	20021212	CA 2002-2445748	20020530
EP 1399473	A2	20040324	EP 2002-732931	20020530
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
US 2004250313	A1	20041209	US 2004-478243	20040423
PRIORITY APPLN. INFO.:			GB 2001-13900	A 20010607
			WO 2002-GB2666	W 20020530

ED Entered STN: 13 Dec 2002

AB Invention relates to insecticidal peptides which are suitable for expression in plants. The invention provides synthetic insecticidal proteins which are capable of acting synergistically with further proteins, in particular insecticidal crystal endotoxin (CRY) and vegetative insecticidal protein (VIP) proteins. The insecticidal proteins of invention comprises an X-glycine (X-G) motif at the N-terminus, wherein X is any amino acid and wherein the insecticidal protein has at least 55% identity with a protein having the sequence XGKICTPAGVKCPAALPCCPGLRCIGGVNN KVC. The present invention further provides and insecticidal protein variant which contains a motif depicted as -LPCCPG- and/or -ICTPA-. Also provided are polynucleotides encoding the proteins and plants which are capable of producing the proteins or protein combination. The proteins according to the invention are particularly suitable for the production of plants which are resistant and/or tolerant to insects.

IT 318238-72-1

RL: PRP (Properties)  
 (unclaimed sequence; synthetic insecticidal proteins and synergistic combinations thereof for production of transgenic plants which are resistant to insect)

L14 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 2

ACCESSION NUMBER: 2001:12635 CAPLUS  
 DOCUMENT NUMBER: 134:96263  
 TITLE: Protein and cDNA sequences of a novel insecticidal endotoxin protein CRY from Paecilomyces farinosus  
 INVENTOR(S): Griffin, Jonathan; Carlile, Amanda Jane; Cayley, Patricia Jane; MacKay, Elaine Anne; Warner, Simon Anthony James; Vincent, Jason Leigh; Lee, Michael David  
 PATENT ASSIGNEE(S): Zeneca Limited, UK  
 SOURCE: PCT Int. Appl., 72 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001000841	A1	20010104	WO 2000-GB2457	20000623
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1196585	A1	20020417	EP 2000-940623	20000623
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
JP 2003503060	T2	20030128	JP 2001-506833	20000623
PRIORITY APPLN. INFO.:				
			GB 1999-15215	A 19990629
			GB 1999-30536	A 19991223
			WO 2000-GB2457	W 20000623

ED Entered STN: 05 Jan 2001

AB The present invention relates to insecticidal proteins, in particular proteins obtainable from Paecilomyces sp. such as Paecilomyces farinosus. In a preferred embodiment the invention provides insecticidal proteins having the amino acid sequence depicted as SEQ ID Number 1. The invention also provides an insecticidal synergistic protein combination comprising a first insecticidal protein according to the invention in combination with a further protein. Preferably the further protein is an insecticidal crystal endotoxin (CRY) protein. Also provided are polynucleotides encoding the proteins and plants which are capable of producing the proteins or protein combination.

IT 318238-72-1P

RL: AGR (Agricultural use); BPN (Biosynthetic preparation); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses) (amino acid sequence; protein and cDNA sequences of a novel insecticidal endotoxin protein CRY from Paecilomyces farinosus)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L14 ANSWER 3 OF 3 USPATFULL on STN

ACCESSION NUMBER: 2004:316631 USPATFULL  
 TITLE: Insecticidal proteins and synergistic combinations thereof  
 INVENTOR(S): Vincent, Jason Leigh, Bracknell, UNITED KINGDOM  
 Viner, Russell, Bracknell, UNITED KINGDOM

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004250313	A1	20041209
APPLICATION INFO.:	US 2004-478243	A1	20040423 (10)
	WO 2002-GB2666		20020530

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2001-13900	20010607
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	SYNGENTA BIOTECHNOLOGY, INC., PATENT DEPARTMENT, 3054 CORNWALLIS ROAD, P.O. BOX 12257, RESEARCH TRIANGLE PARK, NC, 27709-2257	
NUMBER OF CLAIMS:	59	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	3 Drawing Page(s)	
LINE COUNT:	2047	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to insecticidal proteins. In a particular embodiment the invention provides an insecticidal protein having the amino acid sequence depicted as SEQ ID Number 1. The invention also provides an insecticidal synergistic protein combination comprising a first insecticidal protein according to the invention in combination with a further protein. Preferably the further protein is an insecticidal crystal endotoxin (CRY) protein. Also provided are polynucleotides encoding the proteins and plants which are capable of producing the proteins or protein combination. The proteins according to the invention are particularly suitable for the production of plants which are resistant and/or tolerant to insects.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT 318238-72-1

(unclaimed sequence; synthetic insecticidal proteins and synergistic combinations thereof for production of transgenic plants which are resistant to insect)

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